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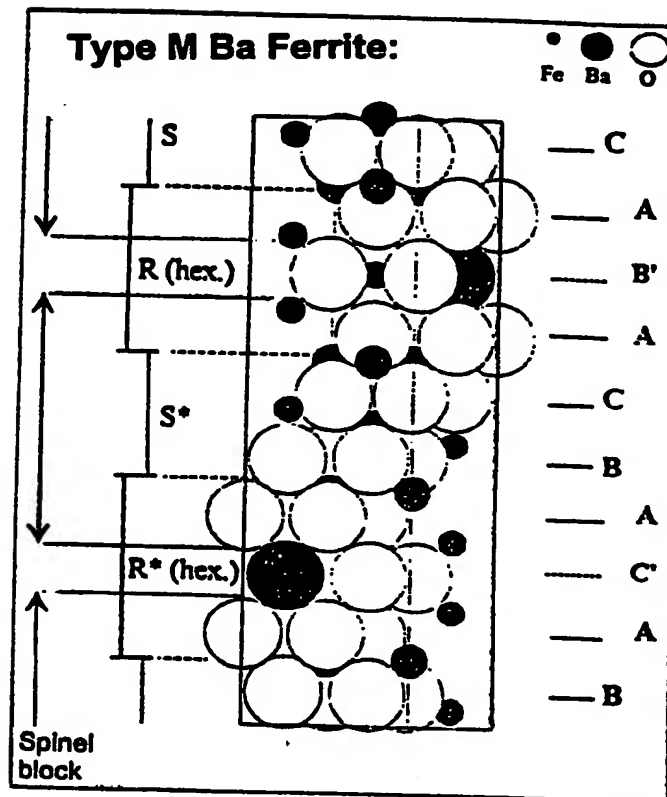
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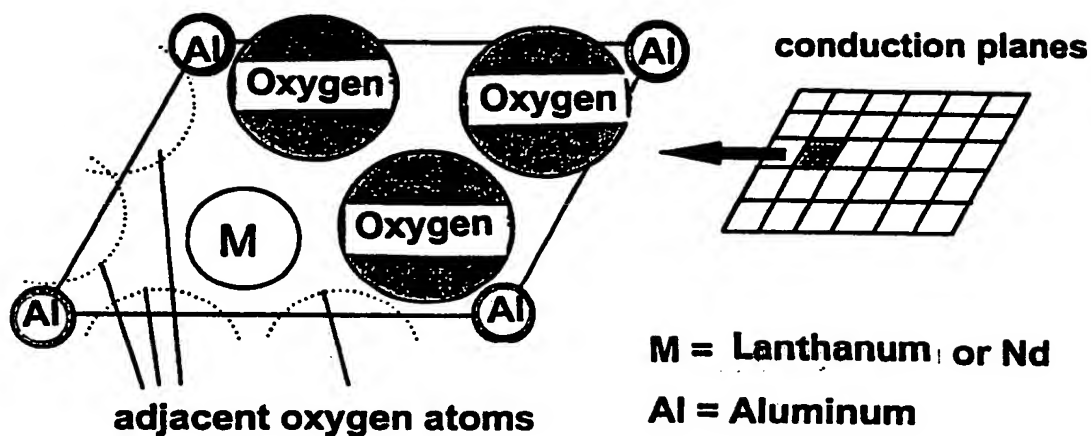
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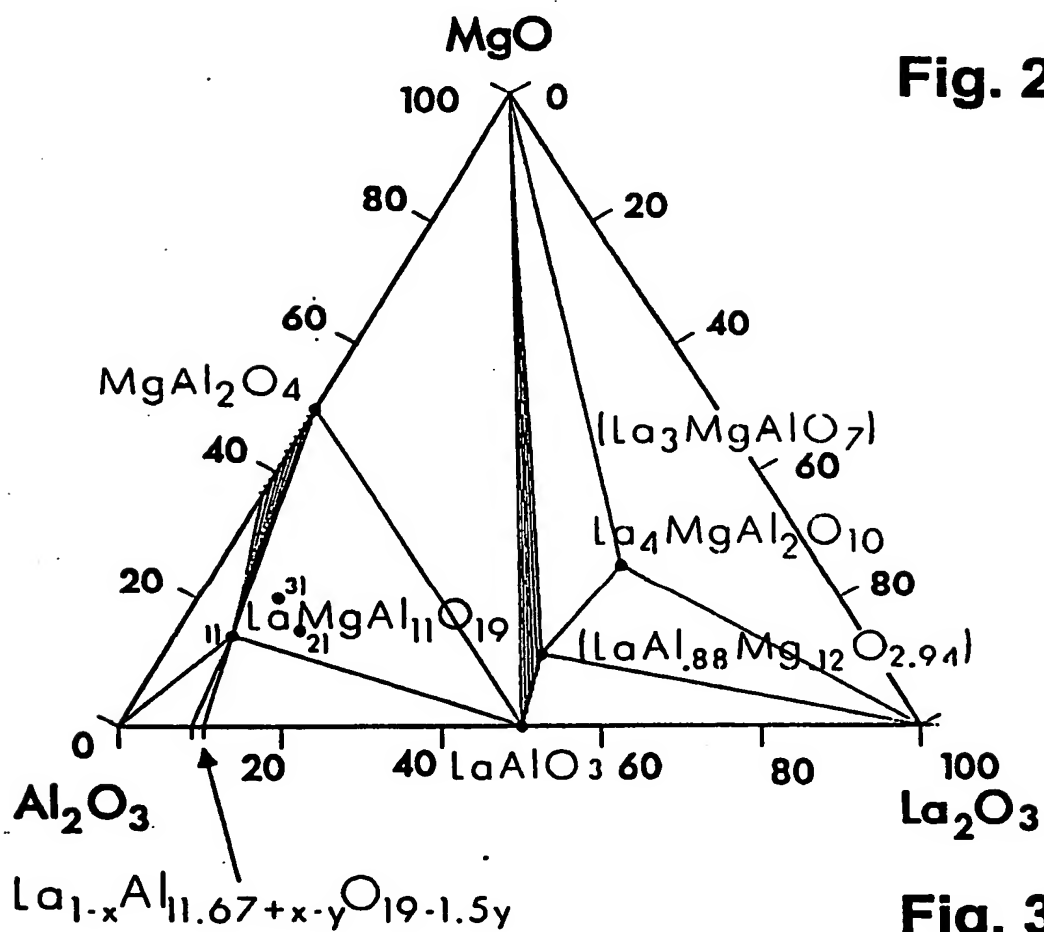


**Fig. 1**

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**Fig. 2**



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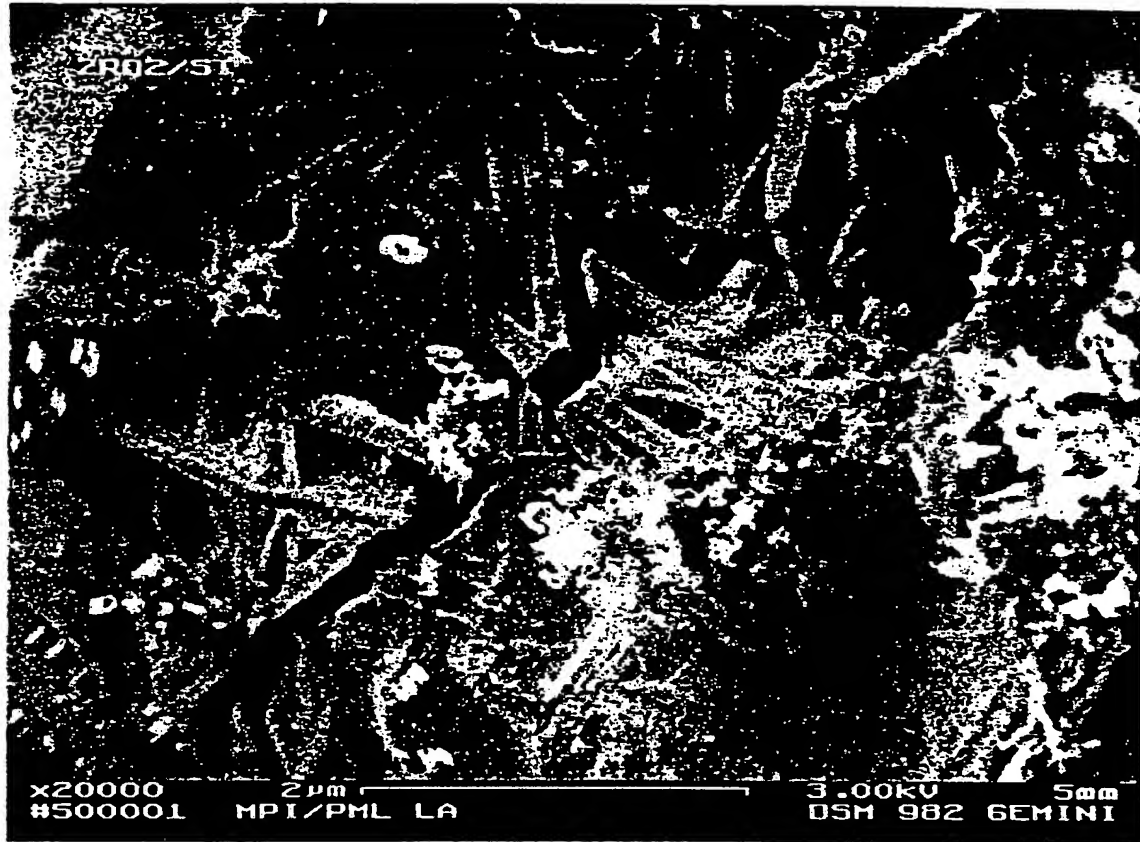
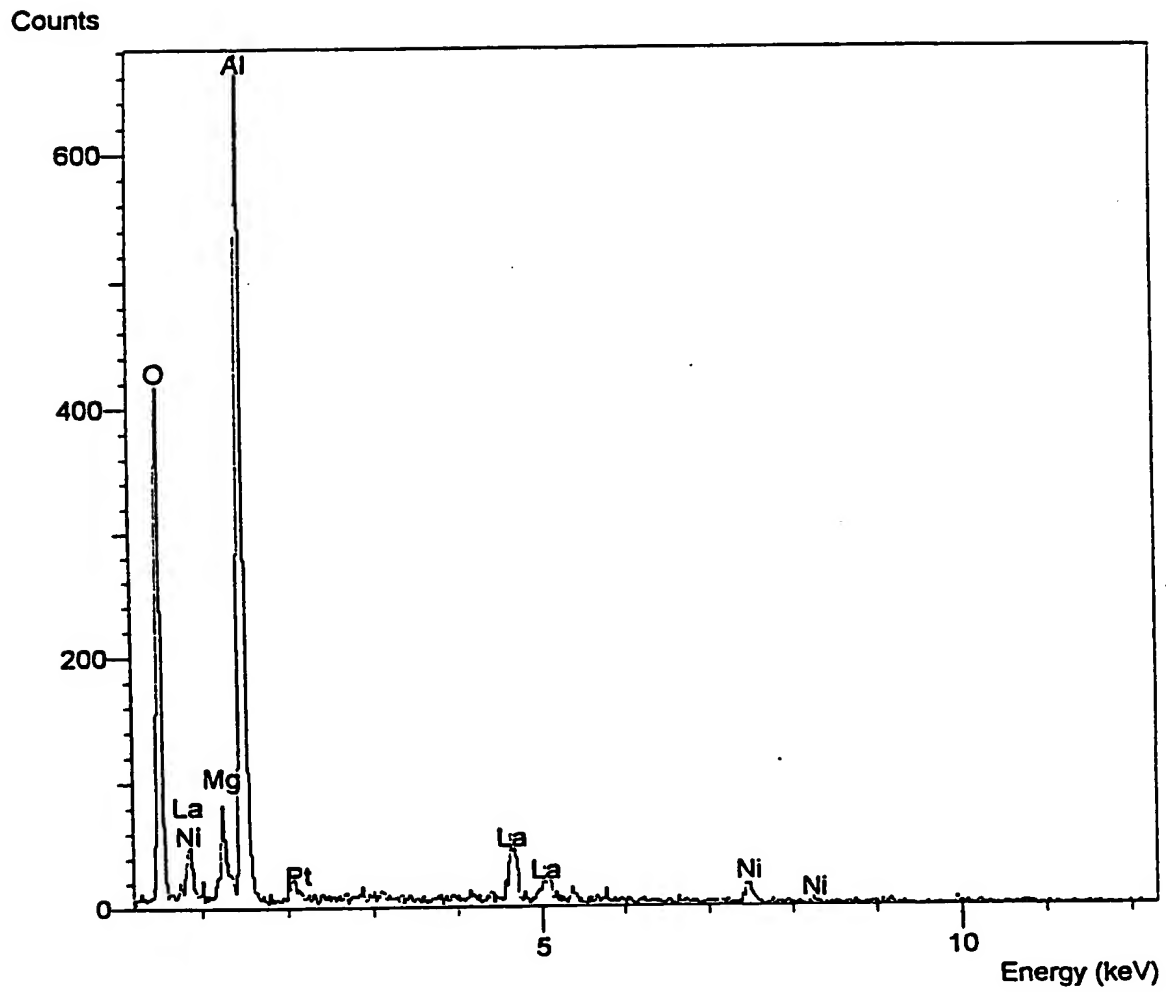


Fig. 4

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**Fig. 5**

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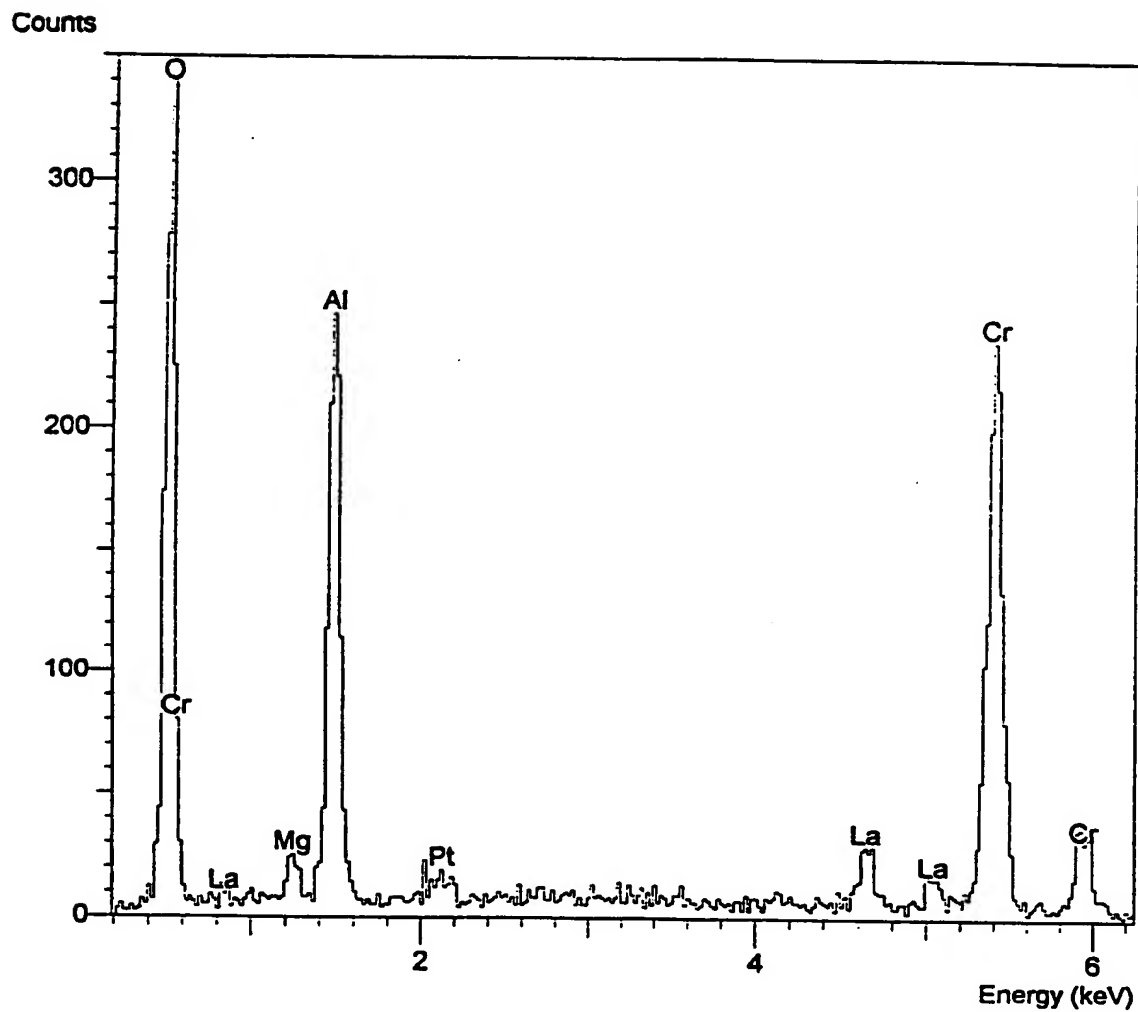
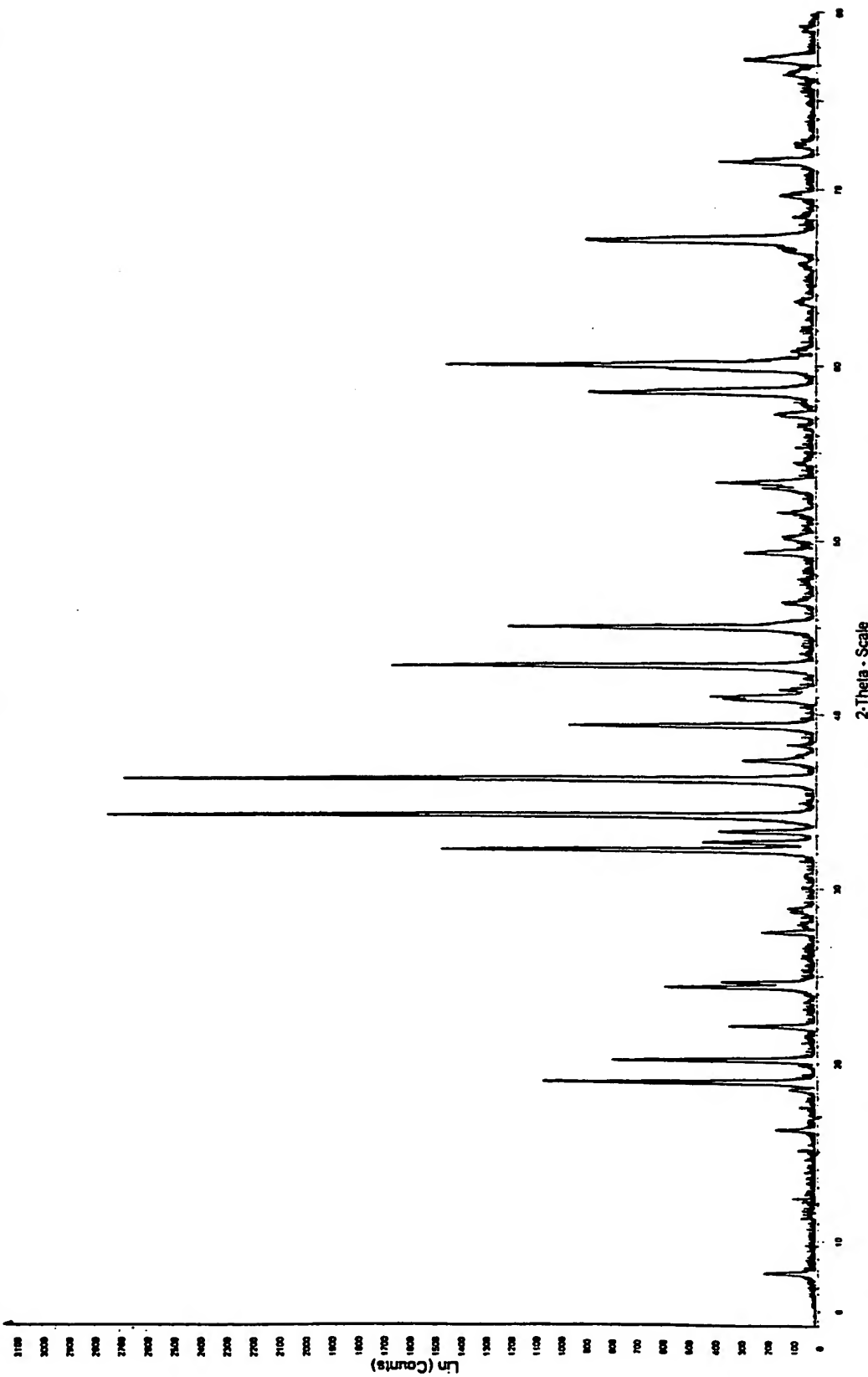
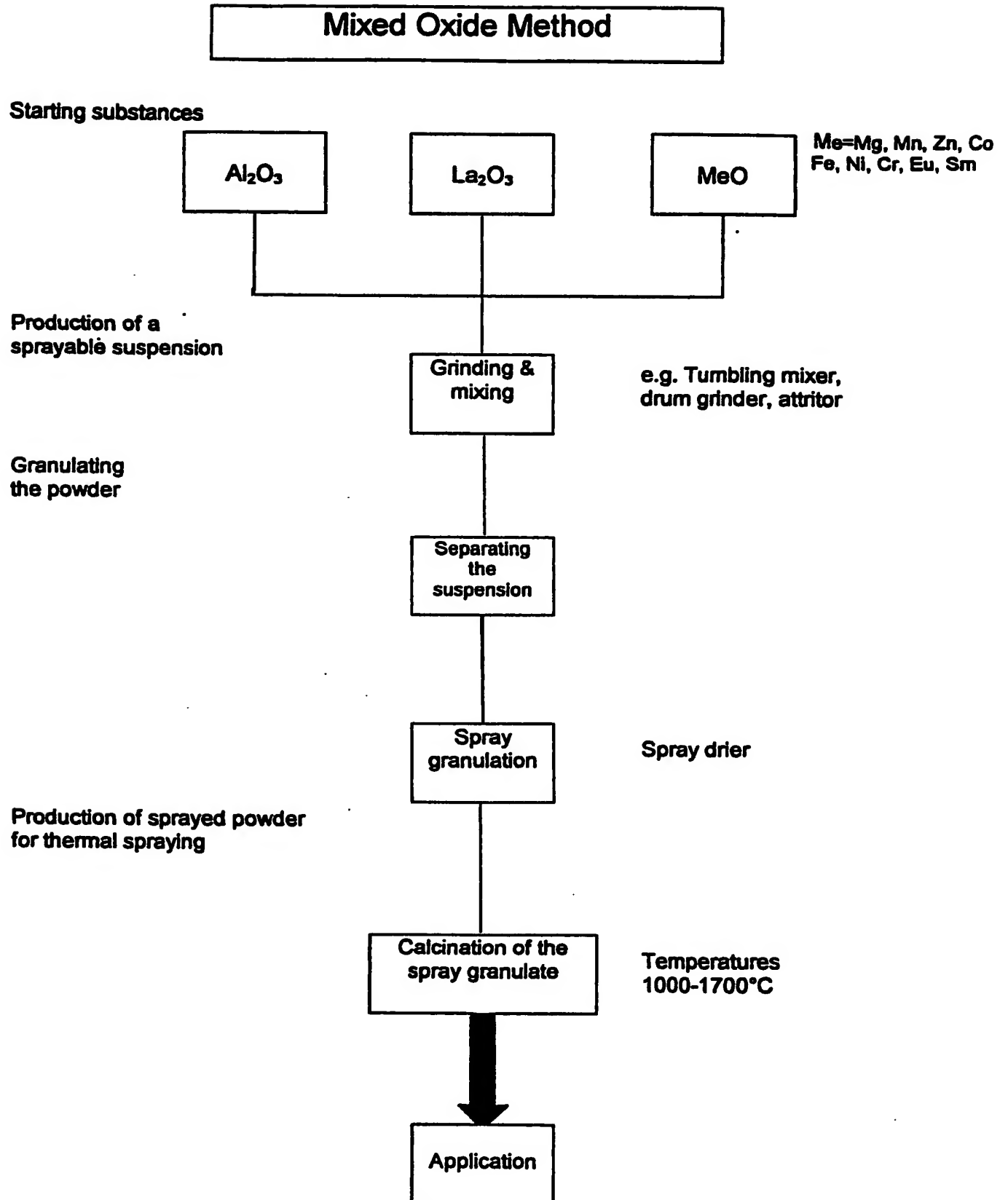


Fig. 6



**Fig. 7**

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**Fig. 8**



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## Wet Ch mistry Method

Starting substances

$\text{Al}_2\text{O}_3$ , Al-hydroxides  
Al-oxyhydrates

insoluble compound

La-Salts

Me-Salts

Me=Mg, Mn, Zn, Co  
Fe, Ni, Cr, Eu, Sm

soluble compounds

Production of a  
sprayable suspension

Grinding &  
mixing

e.g. Tumbling mixer,  
drum grinder, attritor  
Solvent = water, alcohol

Granulating  
the powder

Separating  
the  
suspension

Spray  
granulation

Spray drier

Production of sprayed  
powders for thermospraying

Calcination of the  
spray granulate

Temperatures  
1000-1700°C, air

Application

Fig. 9

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## Production from alcoholates

Starting substances

Al-alcoholate

La-alcoholate

Me-Alcoholate

Me=Mg, Mn, Zn, Co  
Fe, Ni, Cr, Eu, Sm

Precipitating and reacting  
the alcoholates

Precipitating the  
oxide

Addition of an aqueous  
solution in the mixing vessel

Production of a  
sprayable suspension

Addition of dispersing  
agents, binders

Granulating the  
powder

Spray granulation

Spray drier

Production of sprayed  
powders for thermospraying

Calcination of the  
spray granulate

Temperatures  
1000-1700°C

Application

Fig. 10

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## Production of powder highly capable of crystallisation

Starting substances

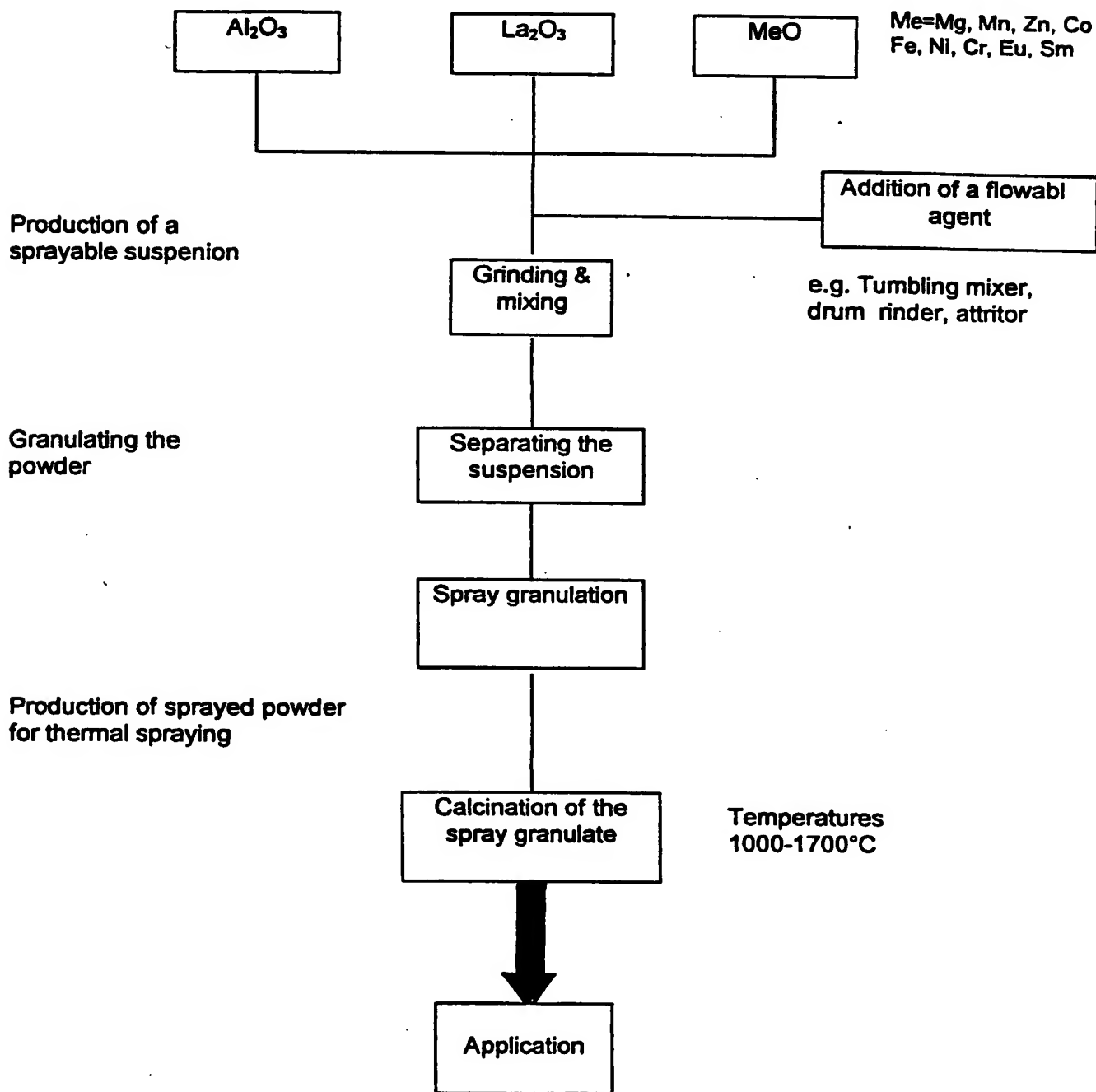
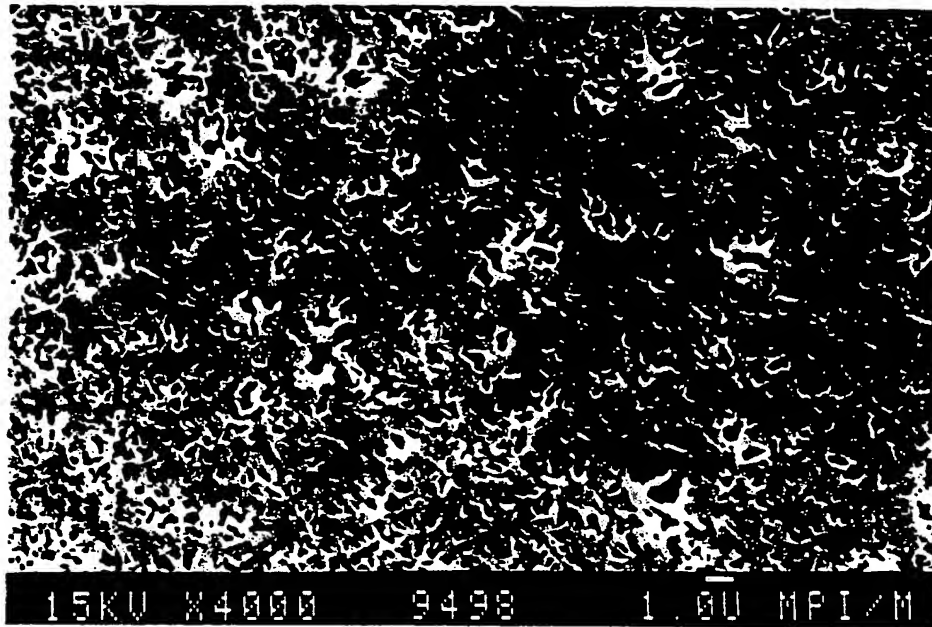
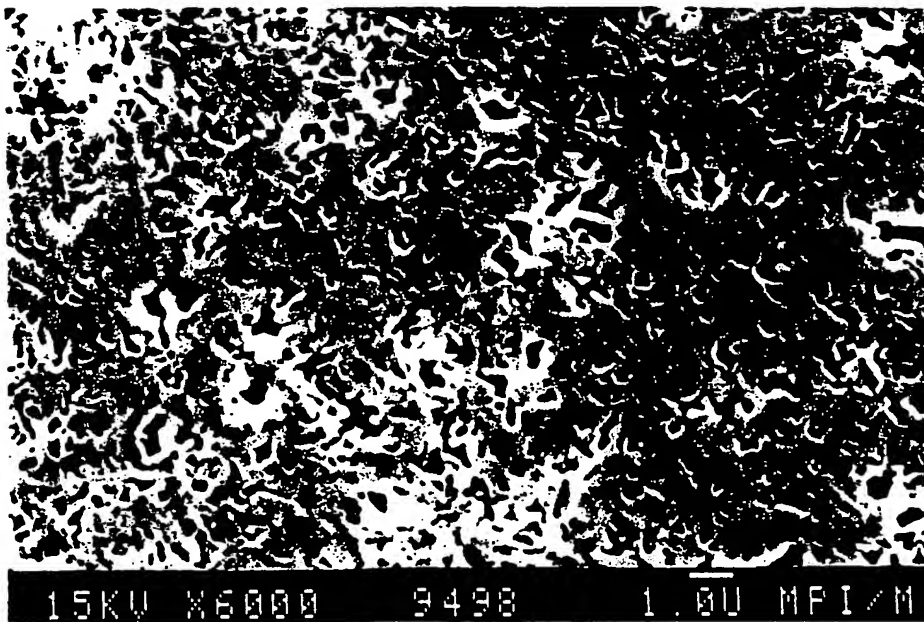


Fig. 11

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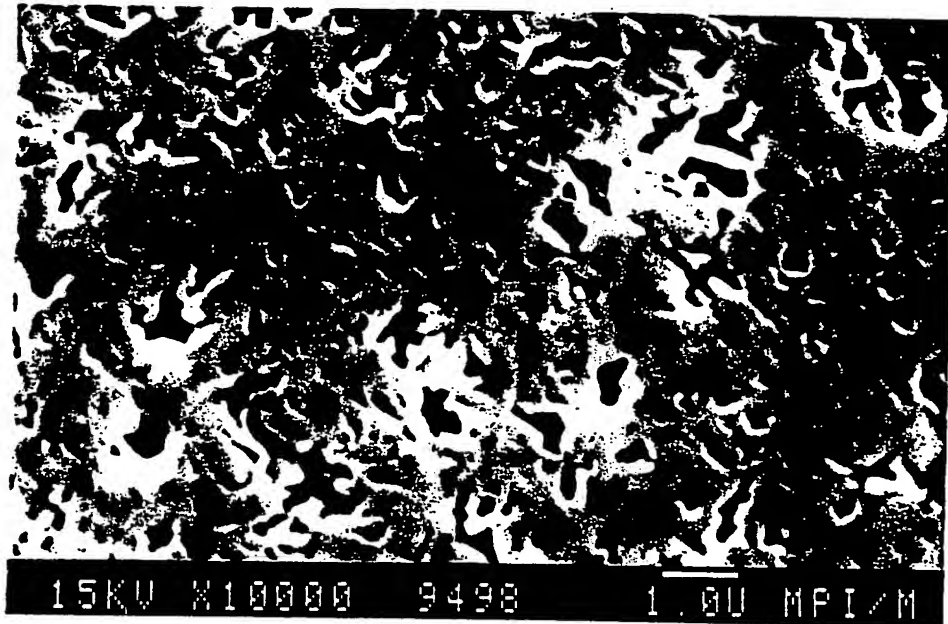


**Fig. 12**

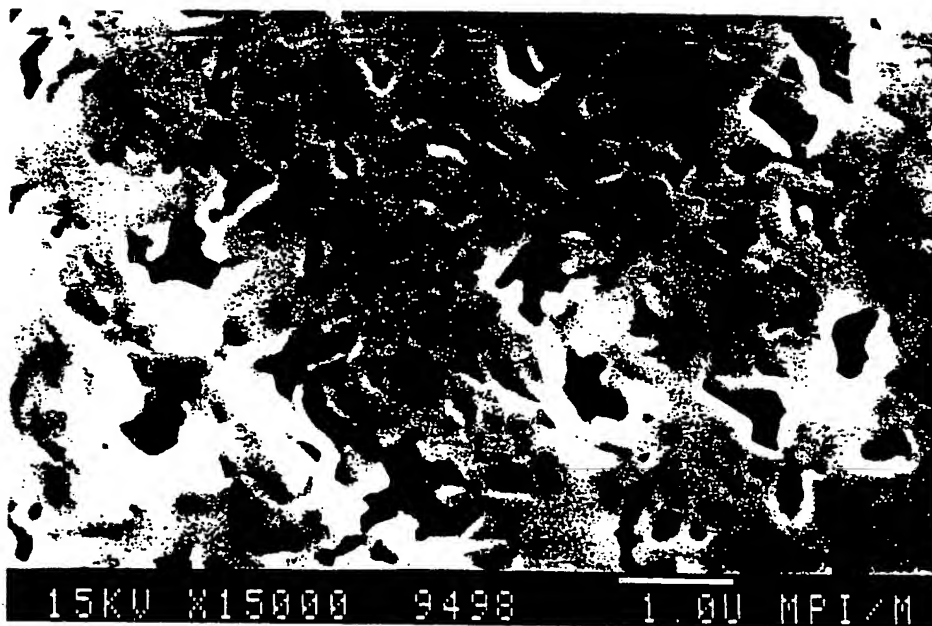


**Fig. 13**

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**Fig. 14**



**Fig. 15**